

Product	nSens-DP Differential pressure	novasina The Art of Precision Measurement
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nSens-DP: External differential pressure sensors



Digital differential pressure sensor for ambient air condition.

Communication based on nSens-Bustechnology. Digital sensor stores calibration data and identification for quick exchange and calibration.

nSens-DP is compatible with all nLink+ transmitters, nlink-USB adapter and nSens extension cables.

Calibration and configuration with USB cable for Windows PC. Does not require additional power supply

Art-No & Measuring ranges:

260 2186 nSens-DP-AE (+/-25 Pa)

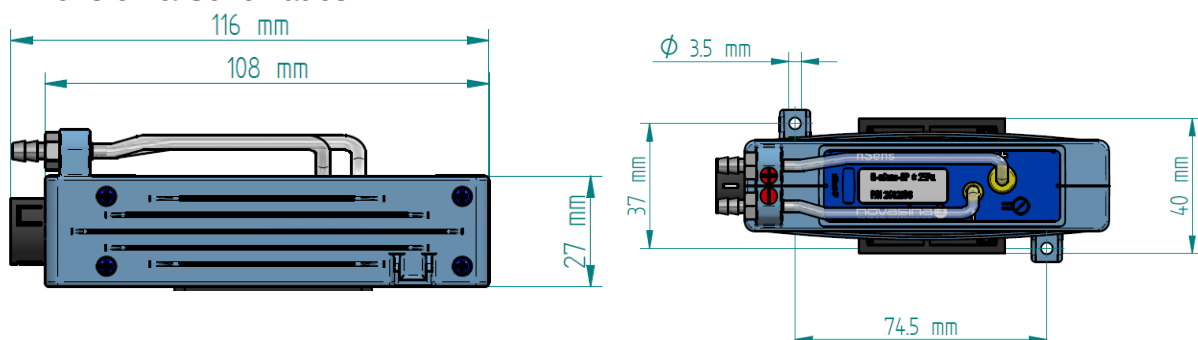
260 2187 nSens-DP-BE (+/-250 Pa)

260 2188 nSens-DP-CE (+/-5000 Pa)

Technical Data

Name	nSens-DP-AE	nSens-DP-BE	nSens-DP-CE
Measurement Range	-25 to +25 Pascal	-250 to +250 Pascal	-5000 to +5000 Pascal
Accuracy at 20°C	Typical +/- 0.15%	Typical +/- 0.25%	Typical +/- 1 %
Temperature effect	Max. +/- 0.10Pa	Max. +/- 0.10Pa	Max. +/- 0.20Pa
Response time T63	<1s typ.	<1s typ.	<1s typ.
Max. Resolution	0.1 Pa	0.1 Pa	0.1 Pa
Long term stability	+/-0.05% FSS (typ)	+/-0.10% FSS (typ)	+/-0.10% FSS (typ)
Flow rate	<200ul/min	<200ul/min	
Max. permissible overpressure	2 bar (burst pressure 4 bar)		0.1 bar (burst pressure 0.3 bar)
Ambient pressure dependency	Compensated with built in abs pressure sensor		
Ambient pressure: Range	700 – 1260 hPa / mBar		
Ambient pressure: Accuracy	+/- 0.5 hPa		
Housing material	ABS		
Protection class	n/a		
Soldering material	lead free (RoHS compliant)		
Working temp.	0 to 50°C		
Communication	digital (nBus Bussystem) and simple protocol		
Kalibration	1-point. Requires nLink-USB and PC software (nSoft-ACT-T)		

Dimension & Schematics



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Accessories

nlink+ IP transmitter (analog signal)		nSens cable extensions	
nLink+IP AS Provides analog signals (0/4-20mA or 0/2-10V) for BMS, automation and monitoring systems.		Extension cable between transmitter nLink+ and nSens.	
			
260 2078 nLink+IP AS		260 1201 nSens Extension 2m 260 1136 nSens Extension 5m 260 1986 nSens Extension 10m 260 1987 nSens Extension 30m	
nlink+EC transmitter (analog signal)		nSens cable with end sleeves	
nLink+EC AS Provides analog signals (0/4-20mA or 0/2-10V) for BMS, automation and monitoring systems.		Extension cable between transmitter nLink+EC and nSens.	
			
260 2080 nLink+EC AS		260 1080 nSens-cable 5m 260 1079 nSens-cable 10m 260 1078 nSens-cable 30m 260 1225 nSens-cable 60m 260 1226 nSens-cable 100m	
Configuration cable: nlink-USB&CA3		Wall mount / din rail mount	
Configuration cable for nLink-Analog to Android or Windows PC. Software available for download			
			
260 1818 nlink-USB-CA3 (complete set)		2602053: wall / rail mount	

Technical data subject to change without prior notice